
MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **EZ FAST INK CLEANING SOLUTION**

Product Use: Ink-Jet Printing

Company Identification

MANUFACTURER
Equipment Zone, Inc.
17-20 Willow St.
Fair Lawn, NJ 07410 USA
(01) 201-797-1504

For Emergencies Involving a Spill, Leak, Fire, Exposure or Accident, Contact ChemTel at 800-255-3924 within the United States or 813-248-0573 for international collect calls.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components (% by weight)

<u>Material</u>	<u>CAS Number</u>	<u>%</u>
Water	7732-18-5	80-98
*Ethylene Glycol	107-21-1	1-10
Propylene Glycol	57-55-6	1-10

*Disclosure as a toxic chemical is required under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

Components (Remarks)

**The specific identity for each component not identified by a CAS Registry Number is withheld as a trade secret.

3. HAZARDS IDENTIFICATION

Potential Health Effects

THIS PRODUCT CAN BE USED SAFELY WHEN USED AS DIRECTED AND WHEN APPLICABLE SAFETY PRECAUTIONS ARE FOLLOWED.

POTENTIAL HEALTH EFFECTS FROM PRODUCT

Potential routes of overexposure to this product are skin contact, eye contact and inhalation of vapor.

Ingestion is not expected to be a significant route of exposure for this product under normal use conditions.

There is no toxicity data available for this specific formulation. Any potential hazards are presumed to be due to exposure to the components.

ADDITIONAL HEALTH EFFECTS

Since this mixture has not been tested as a whole to determine the hazards by all routes of exposure, information is provided for each hazardous component of the mixture to meet requirements of OSHA's Hazard Communication Standard (29 CFR 1910.1200). The effects noted occur from exposure to the pure component unless otherwise noted.

INFORMATION FOR COMPONENTS

ETHYLENE GLYCOL

Eye Contact - May cause slight transient (temporary) eye irritation. Corneal injury is unlikely. Vapors or mists may cause eye irritation.

Skin Contact - Essentially nonirritating to skin. Repeated skin exposure to large quantities may result in absorption of harmful amounts.

Inhalation - At room temperature, exposure to vapors are minimal due to physical properties; higher temperatures may generate vapor levels sufficient to cause adverse effects.

Ingestion - Single dose oral toxicity is considered to be moderate. Excessive exposure may cause central nervous system effects, cardiopulmonary effects (metabolic acidosis), and kidney failure. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; however, swallowing amounts larger than that may cause serious injury, even death.

Systemic (Other Target Organ) Effects - Excessive exposure may cause irritation to upper respiratory tract. Observations in animals include kidney and liver effects and deposition of calcium salts in various tissues after long-term dietary intake of ethylene glycol.

Cancer Information - Ethylene glycol did not cause cancer in long-term animal studies.

Teratology (Birth Defects) - Based on animal studies, ingestion of very large amounts of ethylene glycol appears to be the major and possibly only route of exposure to produce birth defects. Exposures by inhalation (tested nose-only in animals to prevent ingestion) or skin contact, the primary routes of occupational exposure, had minimal or essentially no effect on the fetus.

Reproductive Effects - Ingestion of large amounts of ethylene glycol has been shown to interfere with reproduction in animals. Specifically, growth retardation and decreased litter size in rats and mice and mating frequency in mice were observed.

PROPYLENE GLYCOL

Eye Contact - Immediate effects of overexposure may include eye irritation with tearing, pain or blurred vision. Mists may cause eye irritation.

Skin Contact - Short-term overexposure may cause irritation with itching, burning, redness, swelling or rash. Significant skin permeation, and systemic toxicity, after contact appears unlikely. The compound has been infrequently associated with skin sensitization in humans.

Inhalation - Exposure to mists may cause irritation of the nose and throat with sneezing, sore throat or runny nose.

Ingestion - Gross overexposure may cause central nervous system depression with dizziness, confusion, incoordination, drowsiness or unconsciousness. Acidosis.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

4. FIRST AID MEASURES

First Aid

INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Consult a physician. Wash contaminated clothing before reuse.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

Ingestion is not an expected route of exposure during normal use of the product. If ingested, consult a physician.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point	: >93.3 °C (>200 °F)
Method	: Closed Cup
Approximate Flammable Limits in Air, % by Volume	
LEL	: Not Available
UEL	: Not Available
Autoignition Temperature	: Not Available

Product is a nonflammable water-based solution.

Hazardous combustion products (gases/vapors) produced in fire can include carbon monoxide, carbon dioxide and smoke.

Extinguishing Media

Use media appropriate for surrounding material.

Fire Fighting Instructions

This product is not flammable. Use normal firefighting procedures for the area.

6. ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Initial Containment

Dike spill.

Spill Clean Up

Soak up with absorbent material.

7. HANDLING AND STORAGE

Handling (Personnel)

Avoid contact with eyes, skin, or clothing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment

EYE/FACE PROTECTION

Wear safety glasses. Wear coverall chemical splash goggles and face shield when the possibility exists for eye and face contact due to splashing or spraying of the material.

RESPIRATORS

Respirators are not needed for normal use.

PROTECTIVE CLOTHING

If there is potential for significant dermal contact wear appropriate impervious clothing and gloves.

Applicable Exposure Limits and Exposure Data

WATER

PEL (OSHA)	: None Established
TLV (ACGIH)	: None Established
AEL * (DuPont)	: None Established
LD ₅₀ (rat, oral)	: >90 mL/kg (RTECS)
LC ₅₀ (rat, inhalation/4 hr.)	: No data available

ETHYLENE GLYCOL

PEL (OSHA)	: None Established
TLV (ACGIH)	: Ceiling: 100 mg/m ³ , aerosol
AEL * (DuPont)	: 50 ppm, 8 Hr. TWA, vapor
IEL (2000/39/EC)	: 52 mg/m ³ , 20 ppm, skin STEL 104 mg/m ³ , 40 ppm
LD ₅₀ (rat, oral)	: 4,700 mg/kg (RTECS)
LD ₅₀ (rabbit, dermal)	: 9,530 uL/kg ₃ (RTECS)
LC ₅₀ (rat, inhalation/4 hr.)	: >200 mg/m (RTECS)

PROPYLENE GLYCOL

PEL (OSHA)	: None Established
TLV (ACGIH)	: None Established
AEL * (DuPont)	: None Established
WEEL (AIHA)	: 50 ppm, total vapor and aerosol, 8 Hr. TWA 10 mg/m ³ , aerosol only, 8 Hr. TWA
LD ₅₀ (rat, oral)	: 20,000 mg/kg (RTECS)
LD ₅₀ (rat, dermal)	: 20,800 mg/kg (RTECS)
LC ₅₀ (rat, inhalation/4 hr.)	: No data available

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Form	: Liquid
Color	: Colorless to slight yellow
Odor	: Slight
Solubility in Water	: Miscible
pH	: About 8.5
Specific Gravity	: About 1.1

Other Information

Flash Point	: >93.3 °C (>200 °F)
Method	: Closed Cup
Approximate Flammable Limits in Air, % by Volume	
LEL	: Not Available
UEL	: Not Available
Autoignition Temperature	: Not Available

10. STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials

None reasonably foreseeable.

Decomposition

Decomposition does not occur during normal use.

Polymerization

Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Animal Data

No data available for product.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information

No data available for product.

13. DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

14. TRANSPORTATION INFORMATION

(Not meant to be all inclusive)

DOT (Domestic Surface, U.S.A.)	: Not regulated
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ICAO/IATA (Air)	: Not regulated
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IMO/IMDG (Ocean)	: Not regulated
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15. REGULATORY INFORMATION

(Not meant to be all inclusive - selected regulations represented)

U.S. Regulations

Federal Regulations

TSCA Inventory Status - All components of this product are listed, or exempt from listing, on the TSCA 8(b) chemical inventory.

TSCA Section 12(b) Export Notification - This product can contain: None

State Regulations

State Right-To-Know

WARNING - SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE
CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM (California
Proposition 65)

None

Canada

Canadian Environmental Protection Act (CEPA) - All components of this product are
listed on the Canadian Domestic Substances List (DSL) or have been notified.

European Union Regulations

EU Inventory Status - All components of this product are listed, or are exempt from
listing, on the EINECS chemical inventory.

Transport Information - This product is not classified as dangerous within the meaning of
transport regulations.

Labeling - This product does not need to be labeled in accordance with EC-Directive
1999/45/EC.

Switzerland

Switzerland VOC Regulations (Ordinance 814.018, *Verordnung über die
Lenkungsabgabe auf flüchtigen organischen Verbindungen*, as of 28 December 2000)

This product is exempt from Swiss VOC regulations.

16. OTHER INFORMATION

HMIS[®] Rating

Health	0
Flammability	1
Reactivity	0

The data in this Material Safety Data Sheet relates only to the specific material designated
herein and does not relate to use in combination with any other material or in any process.

MSDS Contact Information

Equipment Zone, Inc.
17-20 Willow St.
Fair Lawn, NJ 07410 USA
(01) 201-797-1504

Revision History

17 October 2003	New MSDS
25 February 2004	Regulatory review and update

Key

ACGIH	American Conference of Governmental Industrial Hygienists
AEL	Acceptable Exposure Limit (DuPont)
Cmpds	Compounds
DOT	Department of Transportation (U.S.A.)
ET	Eastern Time (U.S.A.)
EU	European Union
HMIS®	Hazardous Material Information System (National Paint and Coatings Association)
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IEL	Indicative Exposure Limit (EU Directive 2000/39/EC)
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LEL or LFL	Lower Explosive Limit or Lower Flammable Limit
M-F	Monday through Friday
NA	North America
NIOSH	National Institute of Occupational Safety and Health (U.S.A.)
NOHSC	National Occupational Health and Safety Commission (Worksafe Australia)
NOS	Not Otherwise Specified
NTP	National Toxicology Program (U.S.A.)
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
RTECS	Registry of Toxic Effects of Chemical Substances (NIOSH)
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act (U.S.A)
TWA	Time-weighted Average
UEL or UFL	Upper Explosive Limit or Upper Flammable Limit
U.S.A.	United States of America
VOC	Volatile Organic Compound(s)
WEEL	Workplace Environmental Exposure Level

End of MSDS